# Evaluation Kit: User Manual
# IQ Switch® - ProxSense® Series
## IQS222 EV-Kit User Manual

## Table of Content

# 1   Introduction

This user manual describes the IQS222 evaluation kit. The EV-kit is designed to function in two operational modes, standalone- and streaming-mode. It is developed to facilitate application engineers and development engineers in evaluating the IQS222 capacitive proximity and touch sensing, as well as the 11-bit resolution of the scroll wheel and slider. LEDs are used to display the output of the channels in both standalone and streaming mode, while a GUI also allows streaming data to a PC, which facilitates changing all the device settings. The IQS222 comes complete in a Perspex casing and carry bag.

# 2   Standalone Mode

Figure 2.1 shows the top view of the EV-kit. Its features include:

Battery powered
5 x 10mm Diameter buttons
Scroll Wheel
Slider

Quad 7-segment display for wheel/slider data (11-bit resolution)
Buzzer for audio feedback
5 x Touch LEDs
1 x Proximity LED (for all channels)



**Figure 2.1     Top-View of IQS222 EV-kit board.**

# 3 Streaming Mode

The EV-kit board includes a mini-USB connector for streaming the IQS222 device to a PC. The GUI can set all the sensitivity settings for PROX and Touch. The GUI also includes a MP3 player for demonstrating the IQS222's promise in electronic applications. For more details on using the GUI, please refer to application note: "AZD020-IQS222_GUI_Overview". The GUI is available on the Azoteq webpage: www.azoteq.com
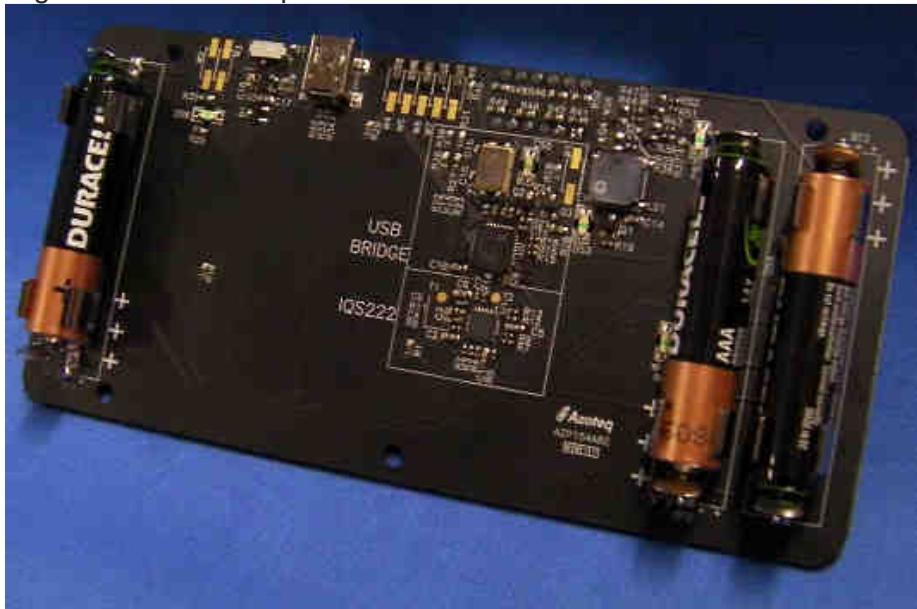


**Figure 3.1    Back view of the IQS222 EV-kit board.**

# 4 Reference Design

Figure 4.1 shows the reference design for the IQS222.
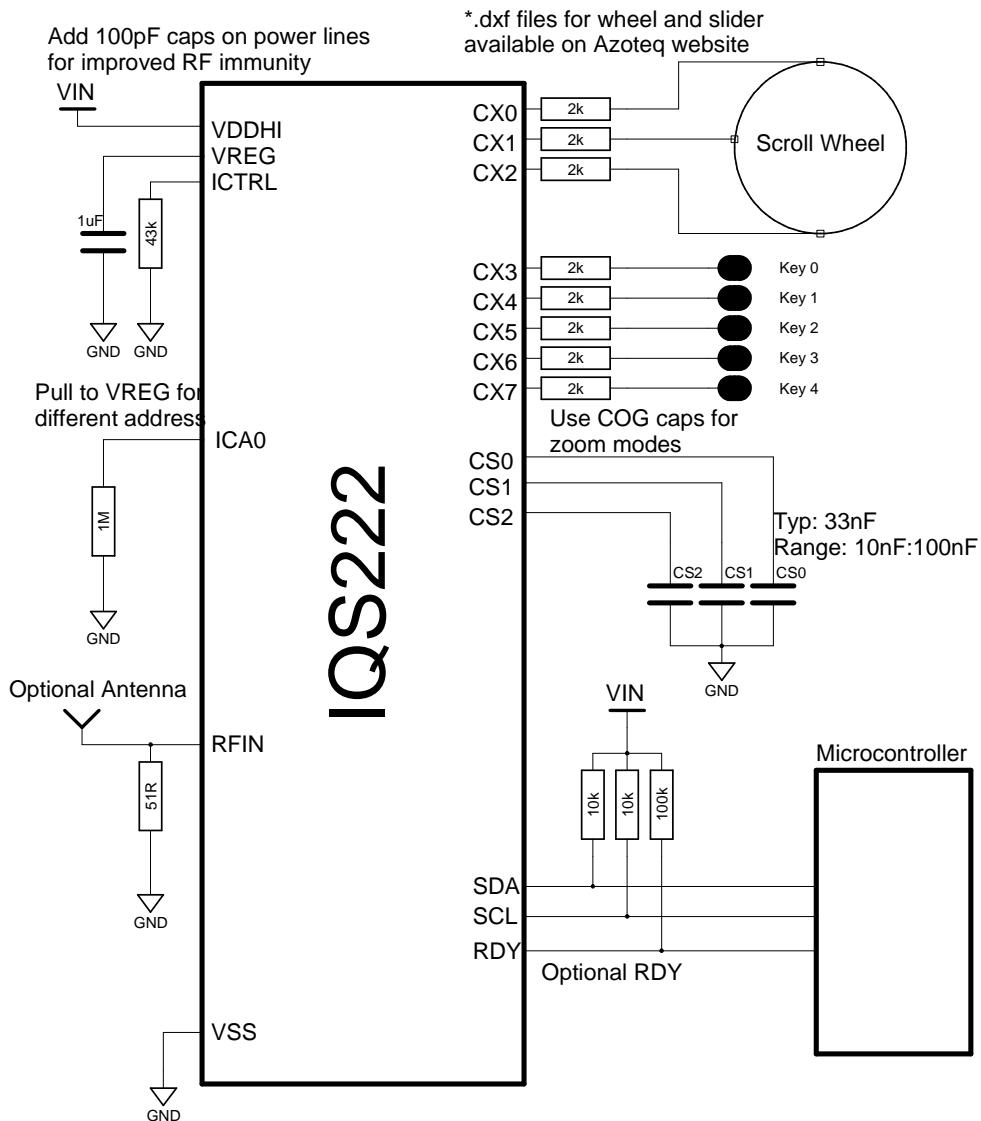


**Figure 4.1    Reference Design for IQS222.**

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